No. IV-21011/7/2010-Prv
Government of India
Ministry of Home Affairs

26, Men Singh Road, Jaisalmer House,
New Delhi, 1.7.2010

To

The DG(Assam Rifles)/BSF/CRPF/ITBP/NSG/SSB/BP/AD

Subject: - Specifications of various Medical/Hospital Equipments -regarding

Sir,

The Specifications for the following Medical/Hospital Equipments have been accepted and approved by the Competent Authority in MHA and the same are enclosed for information and Record:-

1) Glycylated Hb Automatic Reader-Annex-A
2) Infant Open Care System-Annex-B
3) Refraction Unit-Annex-C
4) Auto Refractor-Annex-D
5) Endoscopying Machine-Annex-E
6) Oxygen Concentrator-Annex-F
7) Automated S. Electrolyte Reader-Annex-G
8) Dental Chair-Annex-H
9) Anesthesia Work Station-Annex-I

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Specifications.

Yours faithfully,

[Signature]

Under Secretary to the Govt. of India

Ends: as above

Copy to:-

DD(Procurement), MHA

Copy for Information to:-

PS to JS(PM), MHA
Technical Specification of Infant Care System

**Dimensions:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Not more than 70 cm</td>
</tr>
<tr>
<td>Depth</td>
<td>Not less than 105 cm</td>
</tr>
<tr>
<td>Height</td>
<td>Not more than 200 cm</td>
</tr>
</tbody>
</table>

**Mattress Unit:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height from floor</td>
<td>Not more than 100 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>Not less than 5 cm</td>
</tr>
<tr>
<td>Width</td>
<td>Not less than 45 cm</td>
</tr>
<tr>
<td>Length</td>
<td>Not less than 60 cm</td>
</tr>
</tbody>
</table>

**Power requirement:** Max Power requirement 220-230 V/50 Hz

**Examination light:** 50W / 12 V Halogen Lamp

**Electronics:** High speed Micro Controller

**Modes of operation:** Pre-Warm, Manual, skin and Air.

**Heating Alarms:**

- **Check Patient**: 30 minutes in manual.
- **Skin Temp. high**: +0.5°C from the set point.
- **Skin Temp. Low**: -0.5°C from the set point.
- **Air Temp. High**: +0.5°C from the set point.
- **Air Temp. Low**: -1°C from the set point.
- **Over Temperature**: >39°C (Skin / Air)
- **Probe Failure**: Short (or) open circuit / No probe
- **System failure**: Indicates system fail.
- **Heater failure**: If heater fails.
- **Power failure**: AC power interruption.

**Controller:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin set Temp. range</td>
<td>30-38.5°C</td>
</tr>
<tr>
<td>Air set Temp. range</td>
<td>29-30°C</td>
</tr>
<tr>
<td>Heater output</td>
<td>0-100%, 10% increments</td>
</tr>
<tr>
<td>Skin / Air Temp. display</td>
<td>18-43°C</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±±0.2°C (30°C to 43°C)</td>
</tr>
</tbody>
</table>

**Manual mode**: System alert every 30 seconds.
<table>
<thead>
<tr>
<th>Apparatus</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High adjustment electrical</td>
<td>Alert at 1, 5, 10, 15 and 20 minutes Selectable.</td>
</tr>
<tr>
<td>Brightness control</td>
<td>Display indicates real time.</td>
</tr>
<tr>
<td>Skin / Air Temperature display</td>
<td>Telescopic motor (optional)</td>
</tr>
<tr>
<td>Heating element</td>
<td>High / Low intensity.</td>
</tr>
<tr>
<td>Mattress tilt</td>
<td>0.1°C resolution.</td>
</tr>
<tr>
<td>Heater Module Swivel</td>
<td>Quartz IR heater (Standard)</td>
</tr>
<tr>
<td>Brightness control</td>
<td>Ceramic heater (Optional)</td>
</tr>
<tr>
<td>Castors</td>
<td>+/- 20 degrees</td>
</tr>
<tr>
<td>Heater Watts</td>
<td>+/- 90 Degrees.</td>
</tr>
<tr>
<td>Temperature probe</td>
<td>High / Low intensity.</td>
</tr>
<tr>
<td>Accuracy</td>
<td>4 Nos 5° (Antistatic with 2 brakes)</td>
</tr>
<tr>
<td>Interchangeability</td>
<td>600 w</td>
</tr>
<tr>
<td>X-Ray Cassette Tray</td>
<td>Skin / air thermistor based</td>
</tr>
<tr>
<td>IV Pole</td>
<td>(Dual sensor technology)</td>
</tr>
<tr>
<td></td>
<td>0.2°C.</td>
</tr>
<tr>
<td></td>
<td>0.2°C.</td>
</tr>
<tr>
<td></td>
<td>L57xW35cm</td>
</tr>
<tr>
<td></td>
<td>Suitable IV pole should be part of the equipment</td>
</tr>
</tbody>
</table>

**Swivel Monitor Shelf:**
- Length: Not less than 30cm
- Width: Not less than 45cm
- Cabinet: (Optional)

**Halogen Phototherapy:**
- Power requirements: 220-240 V/50 Hz
- Light output: > 12μW/cm²/nm at 85 cms distance
- Lamp: 12V, 50W quartz halogen white light (6 Nos).
- In-built electronic timer: Should be part of the equipment

**Resuscitation Module:**
- Wall supply pressure: 40-75 psi (275-517 kpa)
- Cylinder pressure: 2-900psi max

**Patient Gas Supply:**
- Flow control range: 0-15 LPM
Airway pressure limit:
- Adjustable
- Internal preset limit : 60 cm H₂O (5.9 kPa)

Auxiliary flow circuit:
- Auxiliary flow range : 0-15 LPM

Auxiliary pressure relief:
- Fixed internal
  - 60 cm H₂O (7.5 kPa)

Suction Circuit:
- Adjustable
  - Reusable collection
  - Container : 0-200 mmHg
  - 500ml

Quality/Test approval:
- Quality
  - ISO 9001-2000 or equivalent
- Electrical Safety
  - IEC 601-1

Presiding officer

(Dr. N.K. Bhamori, IG (Med))

Member BSF

(Dr. Rohil Kumar, CMO)

Member CRPF

(Dr. C. K. Verma, MO (CRPF))

Member FTBP

(Dr. D.K. Verma, SMO)

Member SSB

(Dr. B.K. Nigam, CMO (SSB))
(Dr. Sandhya Thapilyal, MS (Gynae & Obs), SMO, TIBP)

Technically approved/got approved

ADG (Med), CPF2